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IN THE CLAIMS

Please amend claims 32-38 as shown below. The following listing of claims replacing all previous listings:

- 1-31. (Canceled).
- 32. (Currently amended) An optical irradiation device comprising one or more <u>a</u> plurality of LEDs for emitting radiation, the one or more plurality of LEDs thermally connected to one or more a heat pipe[[s]], wherein each of the one or more <u>all of the plurality of LEDs</u> are proximate to <u>at</u> an end of one of the one or more <u>the</u> heat pipe[[s]], a unitary thermal connector directly connecting the one or more <u>plurality of LEDs</u> and the one or more heat pipe[[s]], said one or more heat pipe[[s]] conducting heat away from the one or more <u>plurality of LEDs</u>.
- 33. (Currently amended) The optical irradiation device according to claim 32 further comprising a fan or Peltier device proximate to the one or more heat pipe[[s]].
- 34. (Currently amended) The optical irradiation device according to claim 32 further comprising a heat sink in thermal contact with the one or more heat pipe[[s]].
- 35. (Currently amended) The optical irradiation device according to claim 33, further comprising a heat sink in thermal contact with the one or more heat pipe[[s]].
- 36. (Currently amended) The optical irradiation device according to claim 32, wherein the one or more heat pipe[[s]] provides a means for cooling the one or more plurality of LEDs such that the one or more plurality of LEDs are capable of being driven to produce more radiation than the one or more plurality of LEDs would be capable of without the one or more heat pipe[[s]].

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- 37. (Currently amended) The optical irradiation device according to claim 32, wherein the one or more plurality of LEDs comprise a plurality of LEDs are formed into one or more clusters.
- 38. (Currently amended) The optical irradiation device according to claim 32, wherein the one or more plurality of LEDs comprise a plurality of LEDs are formed into one or more arrays.
 - 39. (Canceled).